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L2	262	alkaline cellulase	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/30 12:50
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Q:	1.	MUTATED ALKALINE CELLULASE (HAKAMADA, Yoshihiro) / (OZAWA, Tadahiro) / (KOBAYASHI, Tooru) / (KAO CORPORATION), PATENT COOPERATION TREATY APPLICATION, Nov 2003	us for am
		representedthe deletion site and a gene encoding the same. The above alkaline cellulase has an optimum pH value close to the pH value of laundry water Full text available at patent office. For more in-depth searching go to texts Nexis 5	ası av
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		Wada, Yasunao / Shikata, Shitsu / Kobayashi, Tohru / Kao Corporation, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 2006nresent invention relates to alkaline cellulase variants having an aminoID NO: 2,	coi en hu
		wherein said alkaline cellulase variant is mutated to include at least	lip.
		cellulase	<u>no</u> n-1
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	3.	Genencor: Glossary [45K] Mar 2006stalks from processed corn, or pesticide residue. Alkaline cellulase Enzyme used in	10 A
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construction of chimeras from mesophilic and thermostable...extracellularly by B. subtilis ISW1214, the plasmids containing a mutated Egl-64 gene were each digested with Hin dIII. The respective... Published journal article available from science @pirescr view all 3 results from ScienceDirect similar results **5.** Supplement to the [PDF-2MB] Apr 2006 Supplement to the AUSTRALIAN OFFICIAL JOURNAL OF PATENTS The Australian Official Journal of Patents (Supplement) is part of the Official Journal issued by the Commissioner of Patents for the purpose of the Patents Act 1990, the Trade Marks Act 1995 and the Designs Act 1906. [http://pericles.ipaustralia.gov.au/ols/epublish/conten...] similar results 6. METHODS FOR PREVENTING, REMOVING, REDUCING, OR DISRUPTING BIOFILM DEINHAMMER, Randy / ANDERSEN, Carsten / NOVOZYMES NORTH AMERICA, INC., PATENT COOPERATION TREATY APPLICATION, Mar 2006 The present invention relates to methods for preventing, removing, reducing, or disrupting biofilm present on a surface, comprising contacting the surface with an alphaamylase derived from a bacterium. Full text available at patent office. For more in-depth searching go to CexisNexis view all 34 results from Patent Offices similar results 7. RECOMBINANT MICROORGANISM TOHATA, Masatoshi / SAWADA, Kazuhisa / OZAKI, Katsuya / SEKIGUCHI, Junichi / KAO CORPORATION, PATENT COOPERATION TREATY APPLICATION, May ...Alternatively, the target gene is mutated (or knocked out) by substitution or...types of industrial enzymes include alkaline cellulase which is derived from the genus Bacillus...an amino-acid SEQ ID NOs: 2 or 4, alkaline cellulase which has an aminoacid sequence in... Full text available at patent office. For more in-depth searching go to texisNexisview all 34 results from Patent Offices similar results 8. Title of Invention: Method of preparing a B-1,4 gly can matrix containing a bound fusion protein [110K] Oct 2004 ...1096-1099. A de-inking process for waste paper for recycling comprising pulping at high pH, then lowering the pH and adding alkaline cellulase has been described in WO91/14819 published Oct. 3, 1991. SUMMARY OF THE INVENTION Compositions, together with methods... [http://www.nal.usda.gov/bic/Biotech_Patents/1994patent...] similar results 9. Peters, J [115K] Dec 2005 ...mitotic phosphorylation sites have been mutated to alanine alleviates the precocious...mitosis-specific sites on Scc1 and SA2, mutated them, and expressed nonphosphorylatable...Omp alpha from Thermotoga maritima, an alkaline cellulase from Bacillus strain KSM-635, and xylanases... more hits from [http://bioinfo.pl/auth:Peters,J] similar results 10. Increasing the thermal stability of cellulase C using rules learned from thermophilic proteins: a pilot study

Nemeth, A. / Kamondi, S. / Szilagyi, A. / Magyar, C. / Kovari, Z. / Zavodszky, P.,

Biophysical Chemistry, May 2002

...to find suitable conformations for the **mutated** side chain. These conformations were further...residues. These side chains were actually **mutated** in the program and tested by rotamer search...Asn9Asp mutant where a buried residue was **mutated**. Actually, in the literature, it is debated...

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11. CRYSTALLISED THERMOSTABLE GLYCOSYL HYDROLASE AND USE THEREOF FOR MODIFYING STRUCTURALLY RELATED ENZYMES

CRENNELL, Susan, J. / NORDBERG KARLSSON, Eva, Margareta / HREGGVIDSSON, Gudmundur, Oli / KRISTJANSSON, Jakob / AEVARSSON, Arnthor / PROKARIA EHF., PATENT COOPERATION TREATY APPLICATION, Oct 2003 The crystal of a hyperthermostable cellulase from Rhodothermus marinus and the three-dimensional structure of the enzyme are provided. The enzyme belongs to the family 12 glycosyl hydrolases. The invention further provides procedures for the...

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12. Bioscience, Biotechnology and Biochemistry [72K]

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...Sequence and Possible Catalytic Residues of a Thermostable, **Alkaline Cellulase** from an Alkaliphilic Bacillus Strain Yoshihiro HAKAMADA...Sequence and Possible Catalytic Residues of a Thermostable, **Alkaline Cellulase** from an Alkaliphilic Bacillus Strain Yoshihiro HAKAMADA...

[http://www.jsbba.or.jp/02/bbb6411.html] similar results

13. Structural basis for the enhanced thermal stability of [PDF-63K]

Feb 2005

...In this experiment, the individual contributions of the two **mutated** charged residues, Q165E and M304R, of CbADH were additive...to the thermal stability of the thermophilic ADH, we further **mutated** the quadruple mutant of CbADH by replacing Arg238 of CbADH...

[http://www.math.princeton.edu/~kris/ariel/salt_bridges...] similar results

14. MUTANT THERMOMONOSPORA SPP. CELLULASE

GOEDEGEBUUR, Frits / WINETZKY, Deborah / POWER, Scott, D. / VAN KIMMENADE, Anita / YOON, Mee-Young / GENENCOR INTERNATIONAL, INC., EUROPEAN PATENT, Jun 2000

BACKGROUND OF THE INVENTION The present invention is directed to novel cellulase compositions and methods of use therefor in industrial processes. In particular, the present invention is related to treating textiles, e.g., laundering and...

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15. A METHOD FOR ENZYMATIC TREATMENT OF BIOFILM

JOHANSEN, Charlotte / Novozymes A/S, EUROPEAN PATENT, Oct 1999 ...subtilisin variant or mutated subtilisin protease...parent gene having been mutated in order to produce...gene from which said mutated subtilisin protease...acid, a neutral of an alkaline cellulase or endoglucanase, i...

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16. Deduced amino-acid sequence and possible catalytic residues of a novel pectate lyase

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20	A METHOD OF KILLING OR INHIBITING MICROBIAL CELLS JOHANSEN, Charlotte / Novozymes A/S, EUROPEAN PATENT, Dec 1998 subtilisin variant or mutated subtilisin proteaseparent gene having been mutated in order to producegene from which said mutated subtilisin proteaseacid, a neutral of an alkaline cellulase or endoglucanase, i Full text available at patent office. For more in-depth searching go to LexisNexisview all 34 results from Patent Offices similar results
	VON DER OSTEN, Claus / CHERRY, Joel, R. / BJORNVAD, Mads, Eskelund / VIND, Jesper / RASMUSSEN, Michael, Dolberg / Novozymes A/S, EUROPEAN PATENT, Dec 1998may be an acid, a neutral or an alkaline cellulase, i.e. exhibiting maximum cellulolyticuseful cellulase is a neutral or alkaline cellulase, preferably a fungal neutral or alkaline cellulase, which is derived from or producible Full text available at patent office. For more in-depth searching go to view all 34 results from Patent Offices similar results
	METHODS FOR ELIMINATING THE FORMATION OF BIOFILM XU, Feng / NOVOZYMES BIOTECH, INC., PATENT COOPERATION TREATY APPLICATION, Dec 2001 The present invention relates to methods for preventing or removing biofilm on a surface, comprising contacting the surface with an effective amount of a composition comprising one or more acylases and a carrier to degrade a lactone produced by one or Full text available at patent office. For more in-depth searching go to LexisNexis- view all 34 results from Patent Offices similar results PROCESS FOR REMOVAL OR BLEACHING OF SOILING OR STAINS FROM CELLULOSIC
	MODIFIED TARGET ENZYMES HAVING CATALYTIC TRIADS AND USES THEREOF SHAW, Andrew / GENENCOR INTERNATIONAL, INC., PATENT COOPERATION TREATY APPLICATION, Aug 2002in soda lakes [Pennisi, Science, 276:705 (1997)]. Cellulase 103, in its isolated native sequence form, is an alkaline cellulase with a pH optimum of - 4 - about 8.0. The folding motif of the enzymeis catalytic core was identified as a (beta/alpha Full text available at patent office. For more in-depth searching go to view all 34 results from Patent Offices similar results
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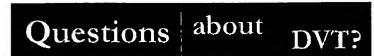
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1.		Αl
	Arnthor / PROKARIA EHF., PATENT COOPERATION TREATY APPLICATION, Oct 2003structures to the crystallized Cell2A, in the above structurally defined regions. However, they may have less well-defined connecting regions (e.g. loops) in between these defined regions. 5 The term "structural entity" in this context refers to one or Full text available at patent office. For more in-depth searching go to view all 2 results from Patent Offices similar results	F
	Increasing the thermal stability of cellulase C using rules learned from thermophilic proteins: a pilot study Nemeth, A. / Kamondi, S. / Szilagyi, A. / Magyar, C. / Kovari, Z. / Zavodszky, P., Biophysical Chemistry, May 2002tend to contain shorter loop regions [15]. Therefore, weconformations for the mutated side chain. These conformationsso that only a short loop remains instead. Thea buried residue was mutated. Actually, in the literaturemutant Loops are flexible regions in proteins that canAlthough this is not a loop (it has a well-defined Published journal article available from science @pirece similar results	
3.	CELLULASE VARIANTS SCHÜ / LEIN, Martin / FREDHOLM, Henrik / HJORT, Carsten, Mailand / RASMUSSEN, Grethe / NIELSEN, Egon / ROSHOLM, Peter / NOVO NORDISK A/S, PATENT COOPERATION TREATY APPLICATION, Apr 1994cleft, and a positively charged surface region in the vicinity of at least one aminosite and optionally a flexible surface loop region which can close upon the catalytic activeDuring docking the flexible surface loop region, resi- due 111-119, changes conformation Full text available at patent office. For more in-depth searching go to LexisNexis- view all 2 results from Patent Offices similar results	

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Y Hakamada, Y Hatada, T Ozawa, K Ozaki, T ... - FEMS Microbiology Letters, 2001 - Blackwell Synergy ... glucanase (Egl; EC 3.2.1.4), a **cellulase** produced by ... 72 h, with shaking, in an **alkaline** medium (pH ... subtilis ISW1214, the plasmids containing a **mutated** Egl-64 ... Cited by 4 - Web Search

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T Reinikainen, O Teleman, TT Teeri - Proteins: Struct. Funct. Genet, 1995 - doi.wiley.com ... shown that separation between the **cellulase** domains is im ... with the fragment containing the **mutated** region and ... rec- ognized by commercial **alkaline** phosphatase la ... Cited by 33 - Web Search - BL Direct

Engineering of a glycosidase Family 7 cellobiohydrolase to more alkaline pH optimum: the pH - group of 6 »

D Becker, C Braet, H Brumer III, M Claeyssens, C ... - Biochemical Journal, 2001 - biochemj.org ... In addition to Cel7A, the Tr cellulase complex contains another ... side chain of His 224 in the mutated enzyme (Figure 4 ... The shift to a more alkaline pH optimum of ... Cited by 9 - Cached - Web Search - BL Direct

Molecular Biology of Cellulose Degradation - group of 4 »

P Beguin - Annual Review of Microbiology, 1990 - micro.annualreviews.org ... Thi; variability suggests that interspecific exchange of **cellulase** genes has occun ... been demonstrated for TnphoA- generated fusions of **alkaline** phosphatase with ... Cited by 114 - Web Search

Activities of **cellulase** and other extracellular enzymes during lignin solubilization by Streptomyces ...

LAV Deobald, DLV Crawford - Applied Microbiology and Biotechnology, 1987 - Springer ... of substituted cinnamic acids released upon **alkaline** ester hydrolysis ... It is possible that the **cellulase** expres- sion ... which in the mutants is probably **mutated**. ... Cited by 6 - Web Search

The relationship between thermal stability and pH optimum studied with wild-type and mutant

... - group of 6 »

H Boer, A Koivula - FEBS Journal, 2003 - ejbiochem.org
... a desired pH optimum in some cellulase applications, Cel7A ... four additional amino acids were mutated to facilitate ... optimum shifted to a more alkaline pH almost ...

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Cloning and Characterization of Two Closely Linked Cellulase Genes from Cellubrio mixtus - group of 3 »

CM Kahler - Current Microbiology, 1996 - Springer

... natu- rally in these exconjugants, and the **mutated** plasmids were ... CM Kahler and JM Pemberton: **Cellulase** Genes from ... DNA was prepared by the **alkaline** lysis method ... Cited by 1 - Web Search - BL <u>Direct</u>

Regulation of Trichoderma cellulase formation: lessons in molecular biology from an industrial ... - group of 2 »

MV Schmoll, CPV Kubicek - Acta Microbiologica et Immunologica Hungarica, 2003 - akademiai.com ... of 2-deoxyglucose [68], bears a **mutated** cre1 gene ... avenues for the improvement of the **cellulase** promoters. ... Family 7 cellobiohydrolase to more **alkaline** pH optimum ... Cited by 6 - Web Search - BL Direct

<u>Structural basis of the properties of an industrially relevant thermophilic xylanase</u> - <u>group of 4 »</u> GW Harris, RW Pickersgill, I Connerton, P Debeire, ... - Proteins Structure Function and Genetics, 1997 - doi.wiley.com

... re- quires a xylanase that is thermostable, active at alkaline pH, and lacks cellulase activity ... 2). The sequence of the model structure was mutated in O to ... Cited by 35 - Web Search - BL Direct

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